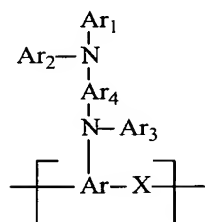


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An electroluminescent device, comprising:
 - a) a spaced-apart anode and cathode; and
 - b) an organic layer disposed between the spaced-apart anode and cathode and including a polymer having arylamine repeating unit moiety represented by formula



wherein Ar, Ar₁, Ar₂, Ar₃, and Ar₄ are each individually aryl group of from 6 to 60 carbon atoms; or a heteroaryl group of from 4 to 60 carbons, or combinations thereof; or Ar₁ and Ar₂, or Ar₃ and Ar₄, or Ar₁ and Ar₄, or Ar₂ and Ar₄ are connected through a chemical bond; and

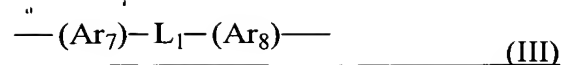
X is a conjugated ~~non-azo~~ group having 2 to 60 carbon atoms in which X is one of the following groups:

- (1) X is a vinylene, or ethynylene group of formula (II):



in which W contains 2 to 40 carbon atoms, and optionally may contain O, N, S, F, Cl, or Br, or Si atoms; or

- (2) X is a group that contains two aryl or heteroaryl groups Ar₃ and Ar₄ connected by a linking group L₁ of formula (III):



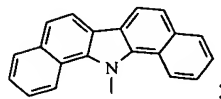
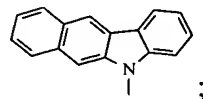
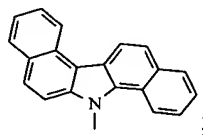
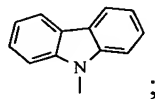
in which Ar₇ and Ar₈ are substituted or unsubstituted aryl groups containing 6 to 60 carbon atoms, or heteroaryl groups containing 4 to 60 carbon atoms and L₁ is a linking group that contains 0 to 40 carbon atoms, and optionally may contain N, Si, O, Cl, F, Br, or S atoms; or

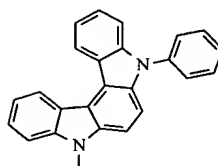
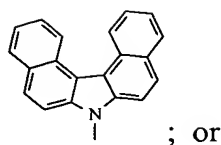
(3) X is an aryl or heteroaryl group of formula (IV):



in which Ar₉ is an aryl group of from 6 to 60 carbon atoms or a heteroaryl group of from 4 to 60 carbons.

2. (withdrawn) The electroluminescent device of claim 1 wherein Ar₁ and Ar₂, Ar₃ and Ar₄, Ar₁ and Ar₄, Ar₂ and Ar₄ are connected by a chemical bond to form a group having $\overset{\text{Ar}_1}{\underset{|}{\text{N}}}\text{—Ar}_2$, $\overset{\text{Ar}_3}{\underset{|}{\text{N}}}\text{—Ar}_4$, $\overset{\text{Ar}_1}{\underset{|}{\text{N}}}\text{—Ar}_4$, or $\overset{\text{Ar}_1}{\underset{|}{\text{N}}}\text{—Ar}_4$ that includes the following carbazole and carbazole derivatives:

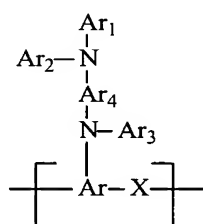




3. (Original) The electroluminescent device of claim 1 wherein X includes a plurality of groups.

4. (Original) The electroluminescent device of claim 1 wherein the organic layer is an emissive layer or a hole injection layer or both.

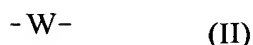
5. (Currently Amended) An electroluminescent device which includes an anode, a cathode, and a polymer disposed between the spaced-apart anode and cathode, the polymer being doped with one or more fluorescent dyes, phosphorescent dopants, or other light emitting material, the polymer including arylamine moiety has the repeating unit represented by formula



wherein Ar, Ar₁, Ar₂, Ar₃, and Ar₄ are each individually aryl group of from 6 to 60 carbon atoms; or a heteroaryl group of from 4 to 60 carbons, or combinations thereof; or Ar₁ and Ar₂, or Ar₃ and Ar₄, or Ar₁ and Ar₄, or Ar₂ and Ar₄ are connected through a chemical bond; and

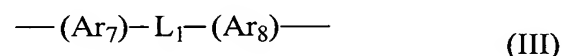
X is a conjugated ~~non-azo~~ group having 2 to 60 carbon atoms in which X is one of the following groups:

(1) X is a vinylene, or ethynylene group of formula (II):



in which W contains 2 to 40 carbon atoms, and optionally may contain O, N, S, F, Cl, or Br, or Si atoms; or

(2) X is a group that contains two aryl or heteroaryl groups Ar₃ and Ar₄ connected by a linking group L₁ of formula (III):



In which Ar₇ and Ar₈ are substituted or unsubstituted aryl groups containing 6 to 60 carbon atoms, or heteroaryl groups containing 4 to 60 carbon atoms and L₁ is a linking group that contains 0 to 40 carbon atoms, and optionally may contain N, Si, O, Cl, F, Br, or S atoms; or

(3) X is an aryl or heteroaryl group of formula (IV):

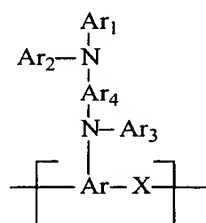


in which Ar₉ is an aryl group of from 6 to 60 carbon atoms or a heteroaryl group of from 4 to 60 carbons.

6. (Currently Amended) A method of making an electroluminescent device, comprising:

a) providing an anode and cathode; and

b) solution coating an organic layer between the spaced-apart anode and cathode and including a polymer having arylamine moiety has the repeating unit represented formula



wherein Ar, Ar₁, Ar₂, Ar₃, and Ar₄ are each individually aryl group of from 6 to 60 carbon atoms; or a heteroaryl group of from 4 to 60 carbons, or combinations thereof; or Ar₁ and Ar₂, or Ar₃ and Ar₄, or Ar₁ and Ar₄, or Ar₂ and Ar₄ are connected through a chemical bond; and

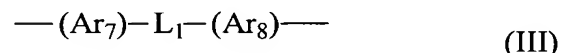
X is a conjugated ~~non-azo~~ group having 2 to 60 carbon atoms in which X is one of the following groups:

(1) X is a vinylene, or ethynylene group of formula (II):



in which W contains 2 to 40 carbon atoms, and optionally may contain O, N, S, F, Cl, or Br, or Si atoms; or

(2) X is a group that contains two aryl or heteroaryl groups Ar₇ and Ar₈ connected by a linking group L₁ of formula (III):



in which Ar₇ and Ar₈ are substituted or unsubstituted aryl groups containing 6 to 60 carbon atoms, or heteroaryl groups containing 4 to 60 carbon atoms and L₁ is a linking group that contains 0 to 40 carbon atoms, and optionally may contain N, Si, O, Cl, F, Br, or S atoms; or

(3) X is an aryl or heteroaryl group of formula (IV):



in which Ar₉ is an aryl group of from 6 to 60 carbon atoms or a heteroaryl group of from 4 to 60 carbons.

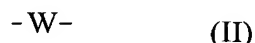
7. (Original) The electroluminescent device of claim 6 wherein the organic layer is an emissive layer or a hole injection layer or both.

8. (Previously Presented) The electroluminescent device of claim 1 wherein Ar, Ar₁, Ar₂, Ar₃, and Ar₄ are each phenyl.

9. (Previously Presented) The electroluminescent device of claim 5 wherein Ar, Ar₁, Ar₂, Ar₃, and Ar₄ are each phenyl.

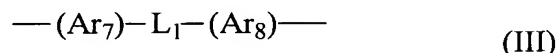
10. (Previously Presented) The method of claim 6 wherein Ar, Ar₁, Ar₂, Ar₃, and Ar₄ are each phenyl.

11. (New) The electroluminescent device of claim 1, wherein X is a vinylene, or ethynylene group of formula (II):



in which W contains 2 to 40 carbon atoms, and optionally may contain O, N, S, F, Cl, or Br, or Si atoms.

12. (New) The electroluminescent device of claim 1, wherein X is a group that contains two aryl or heteroaryl groups Ar₃ and Ar₄ connected by a linking group L₁ of formula (III):



in which Ar₇ and Ar₈ are substituted or unsubstituted aryl groups containing 6 to 60 carbon atoms, or heteroaryl groups containing 4 to 60 carbon atoms and L₁ is a linking group that contains 0 to 40 carbon atoms, and optionally may contain N, Si, O, Cl, F, Br, or S atoms.

13. (New) The electroluminescent device of claim 1, wherein X is an aryl or heteroaryl group of formula (IV):



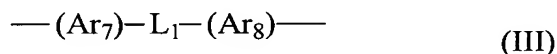
in which Ar₉ is an aryl group of from 6 to 60 carbon atoms or a heteroaryl group of from 4 to 60 carbons.

14. (New) The electroluminescent device of claim 5, wherein X is a vinylene, or ethynylene group of formula (II):



in which W contains 2 to 40 carbon atoms, and optionally may contain O, N, S, F, Cl, or Br, or Si atoms.

15. (New) The electroluminescent device of claim 5, wherein X is a group that contains two aryl or heteroaryl groups Ar₃ and Ar₄ connected by a linking group L₁ of formula (III):



in which Ar₇ and Ar₈ are substituted or unsubstituted aryl groups containing 6 to 60 carbon atoms, or heteroaryl groups containing 4 to 60 carbon atoms and L₁ is a linking group that contains 0 to 40 carbon atoms, and optionally may contain N, Si, O, Cl, F, Br, or S atoms.

16. (New) The electroluminescent device of claim 5, wherein X is an aryl or heteroaryl group of formula (IV):



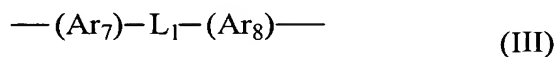
in which Ar₉ is an aryl group of from 6 to 60 carbon atoms or a heteroaryl group of from 4 to 60 carbons.

17. (New) The method of claim 6, wherein X is a vinylene, or ethynylene group of formula (II):



in which W contains 2 to 40 carbon atoms, and optionally may contain O, N, S, F, Cl, or Br, or Si atoms.

18. (New) The method of claim 6, wherein X is a group that contains two aryl or heteroaryl groups Ar₃ and Ar₄ connected by a linking group L₁ of formula (III):



in which Ar₇ and Ar₈ are substituted or unsubstituted aryl groups containing 6 to 60 carbon atoms, or heteroaryl groups containing 4 to 60 carbon

atoms and L_1 is a linking group that contains 0 to 40 carbon atoms, and optionally may contain N, Si, O, Cl, F, Br, or S atoms.

19. (New) The method of claim 6, wherein X is a an aryl or heteroaryl group of formula (IV):



in which Ar_9 is an aryl group of from 6 to 60 carbon atoms or a heteroaryl group of from 4 to 60 carbons.